



Contribution ID: 98

Type: **not specified**

The search for invisibly decaying Higgs bosons at the LHC

Wednesday 10 April 2019 12:15 (15 minutes)

Progress on the search for invisibly decaying Higgs bosons at the LHC will be presented. The analysis is being performed using the CMS Run 2 data, taken in 2016-2018. Several key aspects of the analysis will be reviewed including a description of the novel analysis framework, background estimates including NLO QCD and electroweak corrections, and trigger studies. The search results will be interpreted in terms of several new Dark Matter models. Finally, future prospects for this search in the High-Luminosity LHC phase, with the upgraded CMS detector, will be discussed and simulated results presented.

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Session Classification: Parallel stream 4